Introduction
Congratulations on your purchase of this API 500 format compatible SSL G Series Bus Compressor module.
This module has been specifically designed to operate in a 500 format rack such as the API lunchbox® or equivalent. In common with many such modules, the nominal input/output level is +4dBu.
The module is a stereo compressor, designed to provide flexible control over a stereo mix. The compressor design is based around the Bus Compressor found in the SL 4000 G Series console.

Operation
Please refer to the illustration opposite.
The main VCA is permanently in circuit; the compressor sidechain is enabled by the IN switch. The other sidechain controls are equally straightforward and hopefully require little explanation. The ATTACK, RATIO and RELEASE controls are multi-position switches; the THRESHOLD and MAKE-UP controls are continuously variable potentiometers.
It should be noted that the knee point of the compressor, set with the THRESHOLD control, purposely changes depending on the setting of the RATIO control. Decreasing the RATIO setting lowers the effective threshold, hence maintaining the perceived ‘loudness’ of the compressed signal.
The compressor features a classic ‘dominant’ sidechain architecture. The left and right channels are independently rectified using a true peak full wave detector circuit, and the dominant, ie. louder channel, controls the gain reduction of the overall stereo level via the user selected time constants. The compressor now features an HPF (High Pass Filter) in the sidechain, which is controlled by a multi-position switch.
The illuminated compression meter at the top of the module displays gain reduction for the compressor.

Other Modules
The SSL G Series Bus Compressor is not the only 500 format module available from SSL. Other modules in the range include:

E-Series Dynamics
The E-Series Dynamics Module reproduces the legendary sonic signature of the fully-flavoured VCA channel dynamics section of the SL 4000 E console channel strip. The E-Series Dynamics Module features a compressor/limiter and an expander/gate, both of which return faithfully to the circuitry and key components that define the sound of the original SL 611 E Series channel strip.

E-Series EQ
The E-Series EQ Module features two different EQ’s found on editions of the console produced between 1979 and 1987. Each EQ has unique response curves and tonal character. Historically, the type of EQ fitted in an individual console was distinguished by the colours used on the LF knob caps so the two flavours have become known as the ‘Brown’ and ‘Black’ EQ’s. On the E-Series EQ Module, you can switch between these two different flavours of EQ that have been loved by generations of professional producers.
Standards Compliance
This apparatus is designed to be installed and used in API 500 format compatible racks which are CE marked. The CE mark on a rack is indicative that the manufacturer confirms that it meets both EMC and the Low Voltage Directive (2006/95/EC).

Safety and Installation Considerations
This page contains definitions, warnings, and practical information to ensure a safe working environment.

General Safety
• Read these instructions.
• Keep these instructions.
• Heed all warnings.
• Follow all instructions.
• Do not use this apparatus near water.
• Do not expose this apparatus to rain or moisture.
• Clean only with dry cloth.
• Do not block any ventilation openings. Install in accordance with the rack manufacturer’s instructions.
• There are no user-adjustments, or user-servicable items, on this apparatus.
• Do not make any alteration or modification to this apparatus.

Caution
• This apparatus should not be used in safety critical applications.
• Do not operate this apparatus with any covers removed.
• To reduce the risk of electric shock, do not perform any servicing other than that contained in these Installation Instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

Installation
• Ensure power is removed from the rack before fitting or removing this apparatus to or from the rack.
• Use the panel fixing screws supplied with the rack to secure this apparatus into the rack.

Limited Warranty
Please refer any warranty claim to the supplier of this equipment in the first instance. Full warranty information for equipment supplied directly by Solid State Logic can be found on our website: www.solidstatelogic.com.